

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/574,961  
Source: IFWP  
Date Processed by STIC: 05/04/2006

# ***ENTERED***

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/574,961

CRF Edit Date: 05/10/2006  
Edited by: DA

\_\_\_ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

\_\_\_ Corrected the SEQ ID NO. Sequence numbers edited were:

\_\_\_\_\_

\_\_\_ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

\_\_\_\_\_

\_\_\_ Deleted: \_\_\_ invalid beginning/end-of-file text ; \_\_\_ page numbers

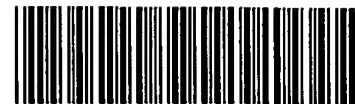
\_\_\_ Inserted mandatory headings/numeric identifiers, specifically:

\_\_\_\_\_

\_\_\_ Moved responses to same line as heading/numeric identifier, specifically:

\_\_\_\_\_

/ Other: Deleted the headings and  
number (150)



IFWP

## RAW SEQUENCE LISTING

DATE: 05/10/2006

PATENT APPLICATION: US/10/574,961

TIME: 15:17:34

Input Set : N:\DA\10574961.RAW.txt

Output Set: N:\CRF4\05092006\J574961.raw

```

5 <110> APPLICANT: Knackmuss, Stefan
6      Rey, Clemence
7      Buttner, Claudia
8      Rottgen, Peter
9      Reusch, Uwe
11 <120> TITLE OF INVENTION: Single-Chain Antibody Acting Against The 37 kDa/67 kDa
Laminin
12      Receptor As Tools For The Diagnosis And Therapy Of Prion
13      Diseases And Cancer, Production And Use Thereof
15 <130> FILE REFERENCE: 6713
C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/574,961
C--> 19 <141> CURRENT FILING DATE: 2006-04-07
21 <150> PRIOR APPLICATION NUMBER: German Application No. 103 46 627.4
23 <151> PRIOR FILING DATE: 2003-10-08
25 <160> NUMBER OF SEQ ID NOS: 4
27 <170> SOFTWARE: WordPerfect 11
29 <210> SEQ ID NO: 1
30 <211> LENGTH: 816
31 <212> TYPE: DNA
32 <213> ORGANISM: artificial sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: DNA codes for single-chain antibody scFv S18. It is contained
37      in the plasmid pEX/HAM/LRP-S18. This plasmid was deposited in
38      the DSMZ, Mascheroder Weg 1b, D-38124 under the accession
39      number xxxx. After transformation of the plasmid in E.coli
W--> 40      XL1-Blue, the production of the scFv antibody S18 is possible.
42 <400> SEQUENCE: 1
44 caggtgcagc tgcaggagtc tgggggaggc ttggtacagc ctgggggggtc cctgagactc      60
46 tcctgtgcag cctctggatt catgtttagc aggtatgccca tgagctgggt cccccaggct      120
48 ccagggaagg ggccagagtg ggtctcaggt attagtggta gtggtggtag tacatactac      180
50 gcagactccg tgaaggccg gttcaccgtc tccagagaca attccaagaa cacgctgtat      240
52 ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gagacatccg      300
54 ggtttttggc attttgacta ctggggccag ggaactctgg tcaccgtctc ctcagggagt      360
56 gcatccgccc caaagcttga agaaggtgaa ttttcagaag cacgcgtatc tgaactgact      420
58 caggaccctg ctgtgtctgt ggccttggga cagacagtca ggatcacatg ccaaggagac      480
60 agcctcagaa acttttatgc aagctggtac cagcagaagc caggacaggc ccctactctt      540
62 gtcactatag gtttaagtaa aaggccctca gggatcccag accgattctc tgcctccagc      600
64 tcaggaaaca cagcttcctt gaccatcact ggggctcagg cggaagatga ggctgactat      660
66 tactgtaaact cccgggacag aagtggtaat catgtaaatg tgctattcgg cggagggacc      720
68 aagctgaccg tcctacgtca gcccaaggct gccccctcgg tcactctgtt cccgccctct      780
70 tctgcggccg ctggatccca tcaccatcac catcac      816
74 <210> SEQ ID NO: 2
75 <211> LENGTH: 272
76 <212> TYPE: PRT

```

## RAW SEQUENCE LISTING

DATE: 05/10/2006

PATENT APPLICATION: US/10/574,961

TIME: 15:17:34

Input Set : N:\DA\10574961.RAW.txt

Output Set: N:\CRF4\05092006\J574961.raw

77 &lt;213&gt; ORGANISM: artificial sequence

79 &lt;220&gt; FEATURE:

80 <223> OTHER INFORMATION: This protein corresponds to the single-chain antibody S18. It  
 81 can be synthesized in E.coli XL1-Blue after transformation of  
 82 the plasmid pEX/HAM/LRP-S18.

84 &lt;400&gt; SEQUENCE: 2

```

86 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly
87 1      5      10      15
89 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Met Phe Ser Arg Tyr
90      20      25      30
92 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Pro Glu Trp Val
93      35      40      45
95 Ser Gly Ile Ser Gly Ser Gly Ser Thr Tyr Tyr Ala Asp Ser Val
96      50      55      60
98 Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
99 65      70      75      80
101 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
102      85      90      95
104 Ala Arg His Pro Gly Phe Trp His Phe Asp Tyr Trp Gly Gln Gly Thr
105      100      105      110
107 Leu Val Thr Val Ser Ser Gly Ser Ala Ser Ala Pro Lys Leu Glu Glu
108      115      120      125
110 Gly Glu Phe Ser Glu Ala Arg Val Ser Glu Leu Thr Gln Asp Pro Ala
111      130      135      140
113 Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp
114 145      150      155      160
116 Ser Leu Arg Asn Phe Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln
117      165      170      175
119 Ala Pro Thr Leu Val Ile Tyr Gly Leu Ser Lys Arg Pro Ser Gly Ile
120      180      185      190
122 Pro Asp Arg Phe Ser Ala Ser Ser Gly Asn Thr Ala Ser Leu Thr
123      195      200      205
125 Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser
126      210      215      220
128 Arg Asp Arg Ser Gly Asn His Val Asn Val Leu Phe Gly Gly Gly Thr
129 225      230      235      240
131 Lys Leu Thr Val Leu Arg Gln Pro Lys Ala Ala Pro Ser Val Thr Leu
132      245      250      255
134 Phe Pro Pro Ser Ser Ala Ala Ala Gly Ser His His His His His His
135      260      265      270

```

139 &lt;210&gt; SEQ ID NO: 3

140 &lt;211&gt; LENGTH: 834

141 &lt;212&gt; TYPE: DNA

142 &lt;213&gt; ORGANISM: artificial sequence

144 &lt;220&gt; FEATURE:

145 <223> OTHER INFORMATION: DNA codes for single-chain antibody scFv N3. The DNA is  
 146 contained in the plasmid pEX/HAM/LRP-N3. This plasmid was  
 147 deposited in the DSMZ, Mascheroder Weg 1b, D-38124 under the  
 148 accession number xxxx. After transformation of the plasmid in

## RAW SEQUENCE LISTING

DATE: 05/10/2006

PATENT APPLICATION: US/10/574,961

TIME: 15:17:34

Input Set : N:\DA\10574961.RAW.txt

Output Set: N:\CRF4\05092006\J574961.raw

```

W--> 149      E.coli XL1-Blue, the production of the scFv antibody N3 is
W--> 150      possible.
152 <400> SEQUENCE: 3
154 gaagtgcagc tgggtggagtc tggggggaggc gtgggtccagc ctggggaggtc cctgagactc      60
156 tcctgtgcag cgtctggatt caccttcagt agctatggca tgcactgggt ccgccaggct      120
158 ccaggcaagg ggctggagtg ggtggcagtt atatggtatg atggaagtaa taaatactat      180
160 gcagactccg taaaggcccg attcaccatc tccagagaca attccaagaa caccgtgtat      240
162 ctgcaaatga acagcctgag agcggaggac acggtctgtg attactgtgc gactataaccg      300
164 cgctcgtctt ctactacgg tatggacgtc tggggccaag ggaccacggt caccgtctcc      360
166 tcagggagtg catccgcccc aacccttaag cttgaagaag gtgaattttc agaagcacgc      420
168 gtacagcctg tgctgactca gccaccctca gcgtctggga ccccagggca gagggtcacc      480
170 atctcttggt ctggaagcag atccaacatc ggaagtaata ctgtaaactg gtaccagcag      540
172 ctcccaggaa cggcccccaa actcctcatc tatggtaata atcagcggcc ctcaggggctc      600
174 cctgagcgat tctctggctc caagtctggc acctcagcct ccctggccat cagtgggctc      660
176 cagtcagagg atgaggctga ttattactgt gcagcgtggg atgacagcct gactggtgtg      720
178 ctttccggcg gagggaccaa gctgaccgtc ctaggtcagc ccaaggctgc cccctcggtc      780
180 actctgttcc cgccctcttc tgccggccgt ggatcccatc accatcacca tcac      834
184 <210> SEQ ID NO: 4
185 <211> LENGTH: 278
186 <212> TYPE: PRT
187 <213> ORGANISM: artificial sequence
189 <220> FEATURE:
190 <223> OTHER INFORMATION: This protein corresponds to the single-chain antibody N3. It
191      can be synthesized in E.coli XL1-Blue after transformation of
192      the plasmid pEX/HAM/LRP-N3.
194 <400> SEQUENCE: 4
196 Glu Val Gln Leu Val Glu Ser Gly Gly Val Val Gln Pro Gly Arg
197 1      5      10      15
199 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr
200      20      25      30
202 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val
203      35      40      45
205 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val
206      50      55      60
208 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr
209 65      70      75      80
211 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys
212      85      90      95
214 Ala Thr Ile Pro Arg Ser Ser Phe Tyr Tyr Gly Met Asp Val Trp Gly
215      100     105     110
217 Gln Gly Thr Thr Val Thr Val Ser Ser Gly Ser Ala Ser Ala Pro Thr
218      115     120     125
220 Leu Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Gln Pro Val
221      130     135     140
223 Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr
224 145     150     155     160
226 Ile Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Ser Asn Thr Val Asn
227      165     170     175
229 Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly

```

## RAW SEQUENCE LISTING

DATE: 05/10/2006

PATENT APPLICATION: US/10/574,961

TIME: 15:17:34

Input Set : N:\DA\10574961.RAW.txt

Output Set: N:\CRF4\05092006\J574961.raw

230		180		185		190
232	Asn Asn Gln Arg Pro Ser Gly Val Pro Glu Arg Phe Ser Gly Ser Lys					
233		195		200		205
235	Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp					
236		210		215		220
238	Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Thr Gly Val					
239	225		230		235	240
241	Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro Lys Ala					
242		245		250		255
244	Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Ala Ala Ala Gly Ser					
245		260		265		270
247	His His His His His His					
248		275				

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/574,961

DATE: 05/10/2006

TIME: 15:17:35

Input Set : N:\DA\10574961.RAW.txt

Output Set: N:\CRF4\05092006\J574961.raw

L:17 M:270 C: Current Application Number differs, Replaced Application Number

L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:40 M:259 W: Allowed number of lines exceeded, <223> Other Information:

L:149 M:259 W: Allowed number of lines exceeded, <223> Other Information:

L:150 M:259 W: Allowed number of lines exceeded, <223> Other Information:

Raw Sequence Listing before editing,  
for reference only



IFWP

## RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/574,961

TIME: 14:07:11

Input Set : A:\6713-Sequence Listing.txt

Output Set: N:\CRF4\05042006\J574961.raw

5 <110> APPLICANT: Knackmuss, Stefan  
 6 Rey, Clemence  
 7 Buttner, Claudia  
 8 Rottgen, Peter  
 9 Reusch, Uwe  
 11 <120> TITLE OF INVENTION: Single-Chain Antibody Acting Against The 37 kDa/67 kDa  
 Laminin  
 12 Receptor As Tools For The Diagnosis And Therapy Of Prion  
 13 Diseases And Cancer, Production And Use Thereof  
 15 <130> FILE REFERENCE: 6713  
 C--> 17 <140> CURRENT APPLICATION NUMBER: US/10/574,961  
 C--> 19 <141> CURRENT FILING DATE: 2006-04-07  
 21 <150> PRIOR APPLICATION NUMBER: German Application No. 103 46 627.4  
 23 <151> PRIOR FILING DATE: 2003-10-08  
 25 <160> NUMBER OF SEQ ID NOS: 4  
 27 <170> SOFTWARE: WordPerfect 11

## ERRORED SEQUENCES

29 <210> SEQ ID NO: 1  
 30 <211> LENGTH: 816  
 31 <212> TYPE: DNA  
 32 <213> ORGANISM: artificial sequence  
 35 <220> FEATURE:  
 36 <223> OTHER INFORMATION: DNA codes for single-chain antibody scFv S18. It is contained  
 37 in the plasmid pEX/HAM/LRP-S18. This plasmid was deposited in  
 38 the DSMZ, Mascheroder Weg 1b, D-38124 under the accession  
 39 number xxxx. After transformation of the plasmid in E.coli  
 W--> 40 XL1-Blue, the production of the scFv antibody S18 is possible.  
 E--> 42 <400> SEQUENCE: SEQ ID NO 1 → *deleted*  
 44 caggtgcagc tgcaggagtc tgggggaggc ttggtacagc ctgggggggtc cctgagactc 60  
 46 tcctgtgcag cctctggatt catgttttagc aggtatgccca tgagctgggt ccgccaggct 120  
 48 ccagggaagg ggccagagtg ggtctcaggc attagtggta gtggtggtag tacatactac 180  
 50 gcagactccg tgaagggccg gtccaccgtc tccagagaca attccaagaa cacgctgtat 240  
 52 ctgcaaatga acagcctgag agccgaggac acggccgtat attactgtgc gagacatccg 300  
 54 ggtttttggc attttgacta ctggggccag ggaactctgg tcaccgtctc ctcaggaggat 360  
 56 gcatccgccc caaagcttga agaaggtgaa ttttcagaag cacgcgtatc tgaactgact 420  
 58 caggaccctg ctgtgtctgt ggccttggga cagacagtca ggatcacatg ccaaggagac 480  
 60 agcctcagaa acttttatgc aagctgggtac cagcagaagc caggacaggc ccctactctt 540  
 62 gtcactctatg gtttaagtaa aaggccctca gggatcccag accgattctc tgcctccagc 600  
 64 tcaggaaaca cagcttcctt gaccatcact ggggctcagg cggaagatga ggctgactat 660  
 66 tactgttaact cccgggacag aagtggtaat catgtaaatg tgctattcgg cggaggggacc 720  
 68 aagctgaccg tcctacgtca gcccaaggct gccccctcgg tcactctgtt cccgccctct 780

Does Not Comply  
 Corrected Diskette Needed  
*CP9-1, 2, 3, 1*

## RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/574,961

TIME: 14:07:11

Input Set : A:\6713-Sequence Listing.txt

Output Set: N:\CRF4\05042006\J574961.raw

816

70 tctgcggccg ctggatccca tcaccatcac catcac

74 &lt;210&gt; SEQ ID NO: 2

75 &lt;211&gt; LENGTH: 272

76 &lt;212&gt; TYPE: PRT

77 &lt;213&gt; ORGANISM: artificial sequence

79 &lt;220&gt; FEATURE:

80 <223> OTHER INFORMATION: This protein corresponds to the single-chain antibody S18. It  
 81 can be synthesized in E.coli XL1-Blue after transformation of  
 82 the plasmid pEX/HAM/LRP-S18.

E--> 84 <400> SEQUENCE SEQ ID NO: 2 *deleted*

86 Gln Val Gln Leu Gln Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly

87 1 5 10 15

89 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Met Phe Ser Arg Tyr

90 20 25 30

92 Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Pro Glu Trp Val

93 35 40 45

95 Ser Gly Ile Ser Gly Ser Gly Gly Ser Thr Tyr Tyr Ala Asp Ser Val

96 50 55 60

98 Lys Gly Arg Phe Thr Val Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr

99 65 70 75 80

101 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys

102 85 90 95

104 Ala Arg His Pro Gly Phe Trp His Phe Asp Tyr Trp Gly Gln Gly Thr

105 100 105 110

107 Leu Val Thr Val Ser Ser Gly Ser Ala Ser Ala Pro Lys Leu Glu Glu

108 115 120 125

110 Gly Glu Phe Ser Glu Ala Arg Val Ser Glu Leu Thr Gln Asp Pro Ala

111 130 135 140

113 Val Ser Val Ala Leu Gly Gln Thr Val Arg Ile Thr Cys Gln Gly Asp

114 145 150 155 160

116 Ser Leu Arg Asn Phe Tyr Ala Ser Trp Tyr Gln Gln Lys Pro Gly Gln

117 165 170 175

119 Ala Pro Thr Leu Val Ile Tyr Gly Leu Ser Lys Arg Pro Ser Gly Ile

120 180 185 190

122 Pro Asp Arg Phe Ser Ala Ser Ser Ser Gly Asn Thr Ala Ser Leu Thr

123 195 200 205

125 Ile Thr Gly Ala Gln Ala Glu Asp Glu Ala Asp Tyr Tyr Cys Asn Ser

126 210 215 220

128 Arg Asp Arg Ser Gly Asn His Val Asn Val Leu Phe Gly Gly Gly Thr

129 225 230 235 240

131 Lys Leu Thr Val Leu Arg Gln Pro Lys Ala Ala Pro Ser Val Thr Leu

132 245 250 255

134 Phe Pro Pro Ser Ser Ala Ala Ala Gly Ser His His His His His His

135 260 265 270

139 &lt;210&gt; SEQ ID NO: 3

140 &lt;211&gt; LENGTH: 834

141 &lt;212&gt; TYPE: DNA

142 &lt;213&gt; ORGANISM: artificial sequence

144 &lt;220&gt; FEATURE:

## RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/574,961

TIME: 14:07:11

Input Set : A:\6713-Sequence Listing.txt

Output Set: N:\CRF4\05042006\J574961.raw

145 <223> OTHER INFORMATION: DNA codes for single-chain antibody scFv N3. The DNA is  
 146 contained in the plasmid pEX/HAM/LRP-N3. This plasmid was  
 147 deposited in the DSMZ, Mascheroder Weg 1b, D-38124 under the  
 148 accession number xxxx. After transformation of the plasmid in  
 W--> 149 E.coli XL1-Blue, the production of the scFv antibody N3 is  
 W--> 150 possible. *deleted*  
 E--> 152 <400> SEQUENCE: SEQ ID NO. 3 *deleted*  
 154 gaagtgcagc tgggtggagtc tggggggaggc gtggtccagc ctgggagggtc cctgagactc 60  
 156 tcctgtgcag cgtctggatt caccttcagt agctatggca tgcactgggt ccgccagggt 120  
 158 ccaggcaagg ggctggagtg ggtggcagtt atatggtatg atggaagtaa taaatactat 180  
 160 gcagactccg tgaagggccg attcaccatc tccagagaca attccaagaa cacgctgtat 240  
 162 ctgcaaatac acagcctgag agccgaggac acggctgtgt attactgtgc gactataccg 300  
 164 cgctcgtctt tctactacgg tatggacgtc tggggccaag ggaccacggt caccgtctcc 360  
 166 tcagggagtg catccgcccc aacccttaag ctgaagaag gtgaattttc agaagcacgc 420  
 168 gtacagcctg tgctgactca gccaccctca gcgtctggga ccccagggca gagggtcacc 480  
 170 atctcttgtt ctggaagcag atccaacatc ggaagtaata ctgtaaaactg gtaccagcag 540  
 172 ctcccaggaa cggcccccac actcctcatc tatggtaata atcagcggcc ctcaggggtc 600  
 174 cctgagcgat tctctggctc caagtctggc acctcagcct ccctggccat cagtggggtc 660  
 176 cagtcagagg atgaggtga ttat\*actgt gcagcgtggg atgacagcct gactgggtgtg 720  
 178 cttttcggcg gagggaccaa gctgaccgtc ctaggtcagc ccaaggctgc cccctcggtc 780  
 180 actctgttcc cgccctcttc tgcggccgct ggatcccatc accatcacca tcac 834  
 E--> 184 <210> SEQ ID NO: SEQ ID NO. 4 *deleted*  
 185 <211> LENGTH: 278  
 186 <212> TYPE: PRT  
 187 <213> ORGANISM: artificial sequence  
 189 <220> FEATURE:  
 190 <223> OTHER INFORMATION: This protein corresponds to the single-chain antibody N3. It  
 191 can be synthesized in E.coli XL1-Blue after transformation of  
 192 the plasmid pEX/HAM/LRP-N3.  
 E--> 194 <400> SEQUENCE: SEQ ID NO. 4  
 196 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 197 1 5 10 15  
 199 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser Ser Tyr  
 200 20 25 30  
 202 Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 203 35 40 45  
 205 Ala Val Ile Trp Tyr Asp Gly Ser Asn Lys Tyr Tyr Ala Asp Ser Val  
 206 50 55 60  
 208 Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr  
 209 65 70 75 80  
 211 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 212 85 90 95  
 214 Ala Thr Ile Pro Arg Ser Ser Phe Tyr Tyr Gly Met Asp Val Trp Gly  
 215 100 105 110  
 217 Gln Gly Thr Thr Val Thr Val Ser Ser Gly Ser Ala Ser Ala Pro Thr  
 218 115 120 125  
 220 Leu Lys Leu Glu Glu Gly Glu Phe Ser Glu Ala Arg Val Gln Pro Val  
 221 130 135 140  
 222 *deleted*

## RAW SEQUENCE LISTING

DATE: 05/04/2006

PATENT APPLICATION: US/10/574,961

TIME: 14:07:11

Input Set : A:\6713-Sequence Listing.txt

Output Set: N:\CRF4\05042006\J574961.raw

223 Leu Thr Gln Pro Pro Ser Ala Ser Gly Thr Pro Gly Gln Arg Val Thr  
 224 145 150 155 160  
 226 Ile Ser Cys Ser Gly Ser Arg Ser Asn Ile Gly Ser Asn Thr Val Asn  
 227 165 170 175  
 229 Trp Tyr Gln Gln Leu Pro Gly Thr Ala Pro Lys Leu Leu Ile Tyr Gly  
 230 180 185 190  
 232 Asn Asn Gln Arg Pro Ser Gly Val Pro Gly Arg Phe Ser Gly Ser Lys  
 233 195 200 205  
 235 Ser Gly Thr Ser Ala Ser Leu Ala Ile Ser Gly Leu Gln Ser Glu Asp  
 236 210 215 220  
 238 Glu Ala Asp Tyr Tyr Cys Ala Ala Trp Asp Asp Ser Leu Thr Gly Val  
 239 225 230 235 240  
 241 Leu Phe Gly Gly Gly Thr Lys Leu Thr Val Leu Gly Gln Pro Lys Ala  
 242 245 250 255  
 244 Ala Pro Ser Val Thr Leu Phe Pro Pro Ser Ser Ala Ala Ala Gly Ser  
 245 260 265 270  
 247 His His His His His His  
 248 275

## VERIFICATION SUMMARY

DATE: 05/04/2006

PATENT APPLICATION: US/10/574,961

TIME: 14:07:12

Input Set : A:\6713-Sequence Listing.txt

Output Set: N:\CRF4\05042006\J574961.raw

L:17 M:270 C: Current Application Number differs, Replaced Application Number  
L:19 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:40 M:259 W: Allowed number of lines exceeded, <223> Other Information:  
L:42 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:1 differs:0  
L:84 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:2 differs:0  
L:149 M:259 W: Allowed number of lines exceeded, <223> Other Information:  
L:150 M:259 W: Allowed number of lines exceeded, <223> Other Information:  
L:152 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:3 differs:0  
L:184 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO  
L:194 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQ ID NO  
L:222 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0  
L:224 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0  
L:227 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0  
L:230 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0  
L:233 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0  
L:236 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0  
L:239 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0  
L:242 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0  
L:245 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0  
L:248 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:0